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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/916,224	07/27/2001	Wing Foon Lee	509702000100	6824	
25227	7590 06/15/2004		EXAMINER		
MORRISON & FOERSTER LLP 1650 TYSONS BOULEVARD			CUNNINGHAM, TERRY D		
SUITE 300	3 BOULEVARD		ART UNIT	PAPER NUMBER	
MCLEAN, V	A 22102		2816		

DATE MAILED: 06/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)			
		09/916,	224	LEE ET AL.	Ø		
	Office Action Summary	Examin	r	Art Unit			
			Cunningham	2816			
Period f	The MAILING DATE of this communi r Reply	ication appears on t	he cover sheet with	the correspondence addre	ess		
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI- nsions of time may be available under the provisions. SIX (6) MONTHS from the mailing date of this comm e period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months all ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no of the control of	event, however, may a rep latutory minimum of thirty (will expire SIX (6) MONTH oplication to become ABAI	ly be timely filed 30) days will be considered timely. IS from the mailing date of this comn NDONED (35 U.S.C. § 133).	nunication.		
Status							
1)[Responsive to communication(s) file	d on					
2a)⊠	This action is FINAL . 2	2b)☐ This action is	non-final.				
3)□	ince this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practic	ce under <i>Ex part</i> e C	<i>Quayl</i> e, 1935 C.D.	11, 453 O.G. 213.			
Disposit	ion of Claims						
4)⊠	Claim(s) 1-28 is/are pending in the a	pplication.					
	4a) Of the above claim(s) 10.11,24 and 25 is/are withdrawn from consideration.						
5)⊠	Claim(s) 15-17 and 26 is/are allowed	l.					
6)⊠ Claim(s) <u>1-9,12-14,18-23,27 and 28</u> is/are rejected.							
7)[_	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restrict	tion and/or election	requirement.				
Applicat	ion Papers						
9)[The specification is objected to by the	e Examiner.		,	,		
10)⊠	The drawing(s) filed on <u>27 July 2001</u>	is/are: a)⊠ accept	ed or b) objecte	d to by the Examiner.			
	Applicant may not request that any object						
440	Replacement drawing sheet(s) including						
11)	The oath or declaration is objected to	by the Examiner. N	Note the attached (Office Action or form PTO-	-152.		
Priority (ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim f	or foreign priority u	nder 35 U.S.C. § 1	19(a)-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority of						
	2. Certified copies of the priority of3. Copies of the certified copies of						
	application from the Internation			ceived in this National Sta	age		
* 5	See the attached detailed Office action			ceived.			
		- ••					
Attachmen	Ne)						
1) Notic	e of References Cited (PTO-892)		4) Interview Sun	nmary (PTO-413)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PT		Paper No(s)/N	/ail Date			
	nation Disclosure Statement(s) (PTO-1449 or F r No(s)/Mail Date	PTO/SB/08)	5) Notice of Info	rmal Patent Application (PTO-15	52)		

It is initially noted that the amendments to claims 10, 11, 24 and 25 are not understood because these claims are removed from consideration. Further, the amendment improperly marks the amendments. For example, with the markings for claim 12, it would appear that prior claim 12 had no claim body.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4, 5, 12-14, 18, 19, 21, 27 and 28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 4, the phrase "to substantially null and cancel the charge injection and clock feed-through charges" is not understood. It is not understood or seen possible how this operation can occur without any additionally recited elements. As understood by one skilled in the art, the recited structure would not generally have such operation.

Claim 5 is rejected for the reasons discussed above with claim 4.

In claims 12, lines 2-3, it is not understood how the step "switching a first switching element to off" can cause "a charge injection charges and feed-through charges to flow into a first node", without any additional steps. As would be understood by one skilled in the art, this step alone would not be able to provide the recited operation. Similar indefiniteness exists in lines 4-7.

In claim 13, it is not understood how a "method" can comprise essentially circuitry.

Insofar as understood this claim would have similar indefiniteness as claim 4 and/or claim 12.

Claim 14 is rejected as including the indefiniteness discussed above with claim 13.

Claims 18 and 19 are rejected for similar reasons as claims 4 and 5.

Claims 21, 27 and 28 are rejected for similar reasons as claims 4 and 5.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 12-14 and 27-28 are rejected under 35 U.S.C. §102(b) as being anticipated by Hirano et al. (USPN 5, 694,445). Hirano et al. disclose, in Figs. 1 and 6, "a first switching element (ST2) coupled to a first terminal (N10) and a second terminal (N13)"; "a second switching element (ST1) coupled to the first terminal"; and "a capacitor coupled between the second switching element and a ground (ground) or reference voltage"; "a first clock signal (ST2 of Fig. 6)"; and "a second clock signal (ST1 of Fig. 6), all connected and operating similarly as recited by Applicant.

Examiner has fully considered Applicant's remarks for the above rejection and has not found them to be persuasive. Nowhere is Applicant discussing any specific claim language purported to be lacking in the reference to Hirano et al. Applicant argues concerning the connections in the reference to Hirano et al., however, these remarks are not at all understood. As elaborated for in the rejection above, the circuit of Hirano et al. precisely meets that recited in the claims. Applicant further remarks that the claims recite "only 1 capacitor and 2 switching elements". However, these remarks are not understood nor is it seen how such can be relevant. There is nothing whatsoever in the claim limiting the circuit to including "only 1 capacitor and 2

switching elements". Examiner initially points out that the claims expressly state what the circuits or methods are "comprising". It has been well established that the term "comprising" allows for other elements. Additionally, Examiner is reading the recited "circuit" as being only the recited elements, not necessarily the entire circuits shown in the figures.

Applicant further discusses "non-overlapping clock signals" and "memory-cell-array operation". However, neither of these features are found to be recited in the claims. Thus, such cannot possibly be of relevance. Examiner, however, points out the signals ST1 and ST2 of Fig. 6 are clearly "non-overlapping" since there are never on at the same time.

Since Applicant has not shown any failings in the reference to f et al., the rejection is hereby maintained.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742.

The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for

the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC

June 14, 2004

Terry D. Cunningham

Primary Exami**x**er

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